## WHAT IS CLAIMED IS:

1	<ol> <li>An image-capture circuit, comprising:</li> </ol>
2	a digitizer operable to receive a serial analog color signal having a
3	predetermined sequence of color components, the digitizer having:
4	a plurality of channels each operable to process a respective color
5	component; and
6	an analog-to-digital converter operable to sequentially receive and
7	digitize the color components; and
8	a controller coupled to the digitizer and operable to couple each of the
9	channels to the analog to digital converter in the predetermined sequence.
1	2. The image-capture circuit of claim 1, wherein the digitizer further
2	includes a multiplexer disposed between the channels and the analog-to-digital
3	converter, and the controller is further operable to cause the multiplexer to couple
4	the channels to the analog-to-digital converter in the predetermined sequence.
1	The image-capture circuit of claim 1, wherein each input channel
2	is operable to modify the respective color component that it processes.
1	4. The image-capture circuit of clam 3, wherein each input channel
2	is further operable to amplify the respective color component.
1	5. The image-capture circuit of claim 3, wherein each input channel
2	is further operable to offset the respective color component.
1	6. The image-capture circuit of claim 1, wherein the controller is
2	further operable to control the digitizer such that the first input channel processes a
3	first color component of the received analog-color signal, the second input channel
4	processes a second color component of the received analog-color signal, and
5	continuing until each color component is individually processed.
1	7. The image-capture circuit of claim 1, wherein the digitizer is
2	operable to receive the serial analog color signal in the plurality of channels.

1	8. The image-capture circuit of claim 1, wherein the digitizer is
2	further operable to receive a parallel analog-color signal having color components,
3	each channel of the digitizer being operable to receive a respective color component.
1	9. The image-capture circuit of claim 1, wherein the controller and
2	the digitizer are formed on a single chip.
1	10. An image-capture circuit, comprising:
2	a digitizer operable to receive a serial analog color signal having a
3	predetermined sequence of color components, the digitizer having:
4	a plurality of signal modification channels, one of the channels
5	operable to sequentially modify each of the color components according to a
6	corresponding modification parameter; and
7	an analog-to-digital converter operable to sequentially receive and
8	digitize the modified color components; and
9	a controller coupled to the digitizer and operable to sequentially update
0	the modification parameter to correspond to the color component that the channel is
11	modifying.
1	11. The image-capture circuit of claim 10, wherein the modification
2	parameter includes an amplification.
1	12. The image-capture circuit of claim 10, wherein the modification
2	parameter includes an offset.
1	13. A scanner comprising:
2	a sensor head operable to generate a serial analog-color signal having
3	a predetermined sequence of color components responsive to a scan of an image;
4	an image-capture circuit, including:
5	a digitizer operable to receive the serial analog color signal and having:
6	a plurality of channels each operable to process a respective color
7	component; and

8	an analog-to-digital converter operable to sequentially receive and
9	digitize the color components; and
10	a controller coupled to the digitizer and operable to couple each of the
11	channels to the analog to digital converter in the predetermined sequence.
1	14. The scanner of claim 13, wherein each input channel is
2	coupled to the serial analog-color signal.
1	15. The scanner of claim 13, wherein the controller is further
2	operable to synchronize generation of a first color component by the sensor head
3	with the processing of the first color component by a first channel, generation of a
4	second color component by the sensor head with the processing of the second color
5	by a second channel, and continuing until each color component has been
6	generated and processed by a different channel
1	16. The scanner of claim 13, wherein the color components include
2	red, green, and blue.
1	17. The scanner of claim 13, wherein the scan head is a CIS type.
1	18. A scanner comprising:
2	a sensor head operable to generate a serial analog-color signal having
3	a predetermined sequence of color components responsive to a scan of an image;
4	an image-capture circuit, including:
5	a digitizer operable to receive the serial analog color signal and having:
6	a plurality of signal modification channels, one of the channels
7	operable to sequentially modify each of the color components according to a
8	corresponding modification parameter; and
9	an analog-to-digital converter operable to sequentially receive and
10	digitize the modified color components; and
11	a controller coupled to the digitizer and operable to sequentially update
12	the modification parameter to correspond to the color component that the channel is
12	modifying

1	19. A method for digitizing a serial analog-color signal having a
2	predetermined sequence of multiple color components, the method comprising;
3	modifying a first one of the components with a first channel and
4	digitizing the modified component during a first time period; and
5	modifying a second one of the components with a second channel and
6	digitizing the modified component during a second time period that is separate from
7	the first time period.
1	20. A method for digitizing a serial analog-color signal having a
2	predetermined sequence of multiple color components, the method comprising;
3	setting a modification parameter of a selected one of a plurality of
4	channels to first predetermined level, modifying a first one of the color components
5	with the channel, and digitizing the modified first component during a first time
6	period; and
7	setting the modification parameter of the channel to a second
8	predetermined level, modifying a second one of the color components with the
9	channel, and digitizing the modified second component during a second period of
Q	time that is separate from the first time.